US 89 Landslide Event and Repair Milestones

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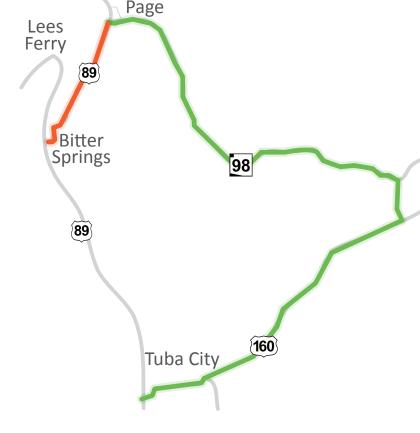
February 20

Landslide Occurs

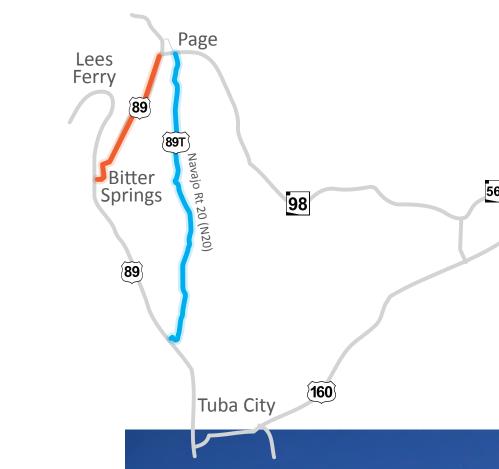
immediate closure of a 23-mile junction near Page







ADOT Plans Shorter DETOUR US 89T (N20)



March 21

June 9

August 29

Shorter Temporary Detour Opened



An early morning landslide rips

150 feet of roadway, forcing stretch of US 89 between the **US 89 junction near Bitter Springs to the State Route 98**



Ground-breaking Begins US 89T (N20) Construction

US 89T (N20)



Before Repairs Began

Emergency Event

Landslide triggers need for a **Incident Management Team to:**

- Restore mobility to the area both short- and long-term
- Provide for the safety of site workers and visitors and security of the site
- Keep the public, stakeholders and the media informed of recovery activities

Investigating

the Cause

Extensive geotechnical work was conducted to determine the cause and assist in identifying solutions for repairs

Rebuilding

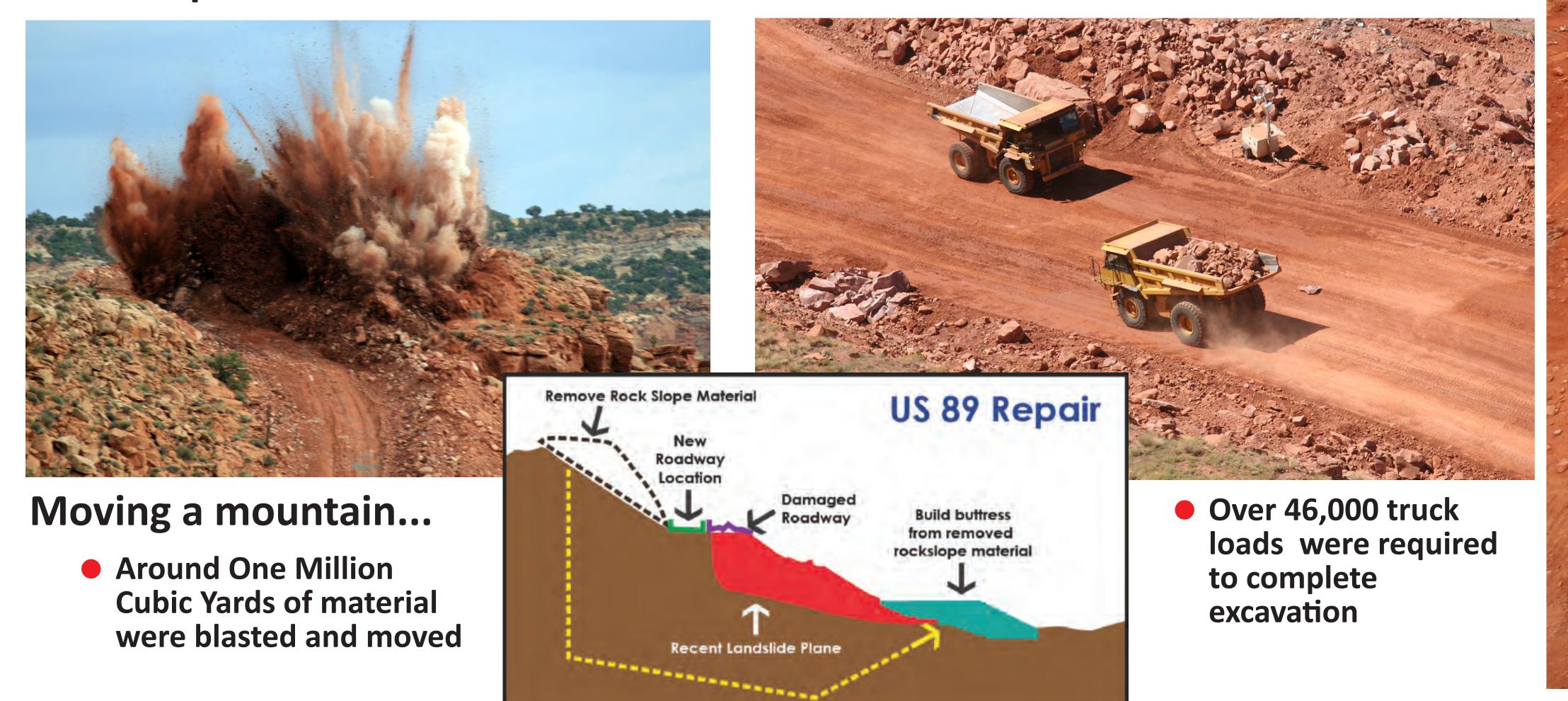
Before federal funds could be secured and repair work could begin, a full environmental and utility clearance was

Agreements between

the Federal Highway Administration, ADOT, Navajo Nation, and the Bureau of Indian Affairs were reached to secure federal aid to rebuild the damaged roadway, including new right-of-way easements to facilitate construction, operations and maintenance of the repaired roadway and temporary detour



The repair included moving the roadway approximately 60 feet away from the landslide area toward Echo Cliffs and using rock material removed for the roadway realignment to construct a downslope buttress to stabilize the area



ADOT secured more than \$60 million in federal emergency relief funds to investigate the cause of the landslide, pave US 89T and repair US 89













